

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR QUALITY

PLAN APPROVAL

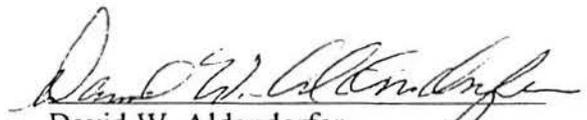
Plan Approval No.:	<u>41-00010C</u>	Source &	<u>refiner plate molding line</u>
Owner:	<u>Andritz, Inc.</u>	Air	<u></u>
	<u></u>	Cleaning	<u></u>
Address:	<u>35 Sherman Street</u>	Device:	<u></u>
	<u>Muncy, PA 17756-1202</u>		<u></u>
Attn:	<u>Mr. Jefferey L. Bower</u>	Location:	<u>Muncy Borough</u>
	<u>Facilities/Environmental Engineer</u>		<u>Lycoming County</u>

In accordance with provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and with Chapter 127 of the rules and regulations of the Department of Environmental Protection, the Department on APR 30 2003 approved plans for the modification of the above indicated air contamination source.

The plan approval is subject to the following conditions:

- (1) The refiner plate molding line is to be modified in accordance with the plans submitted with the application (as approved herein).

See attached for additional conditions.


David W. Aldenderfer
Environmental Program Manager
Air Quality Program
Northcentral Region

cc: Harrisburg
File

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2. Additionally, this plan approval also incorporates Reasonably Available Control Technology (RACT) determinations as required by the provisions of Title I of the Clean Air Act Amendments and Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection for the respective refiner plate molding line, as well as for a green sand molding line, a no-bake floor molding line and a core making operation, all of which existed at the facility prior to July 15, 1994, and are described in condition 3 herein.

3. The "refiner plate molding line" is comprised of
 - a) mold making operation comprised of:
 - 1) facing sand mixer bin
 - 2) Dependable Pacematic 300 facing sand mixer
 - 3) backing sand mixer bin
 - 4) Castec CEL 1000 backing sand mixer
 - 5) vibratory compaction and sand strikeoff station
 - 6) mold draw station
 - 7) mold wash application
 - 8) infra-red curing oven
 - 9) mold closing station
 - 10) mold weight placement station

 - b) pouring and cooling operation comprised of:
 - 1) (3) pouring conveyor lines
 - 2) (4) cooling conveyor lines

 - c) casting shake-out operation comprised of:
 - 1) vibratory shake-out conveyor
 - 2) General Kinematics lump reducer
 - 3) sand elevator
 - 4) magnetic separators
 - 5) dense phase pneumatic transporter

 - d) sand reclamation operation comprised of:
 - 1) reclaimers sand bin
 - 2) CE Rotoflame thermal sand reducer
 - 3) sand cooler-classifier
 - 4) bucket elevator
 - 5) dense phase pneumatic transporter (to thermally reclaimed sand storage silo)
 - 6) single Rotoclaim mechanical sand reclaimers
 - 7) sand cooler-classifier
 - 8) dense phase pneumatic transporter (to mechanically reclaimed sand storage silo)

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The "green sand molding line" is comprised of:

- a) mold making operation comprised of:
 - 1) HMPC 20C Hunter automated molding machine
 - 2) (4) Spo manual molding machines
 - 3) Vertimix ingredient addition station
 - 4) (2) 1000 pound per batch, sand mullers
 - 5) muller discharge conveyor
 - 6) bucket elevator
 - 7) bucket elevator
 - 8) molding machine sand supply conveyor
 - 9) molding machine spill sand return conveyor
- b) pouring and cooling operation comprised of:
 - 1) (1) pouring conveyor (dedicated to the Hunter molding machine)
 - 2) (1) cooling conveyor (dedicated to the Hunter molding machine)
 - 3) (4) rail pouring and cooling lines (dedicated to the Spo molding machine)
- c) casting shake-out operation comprised of:
 - 1) vibratory shake-out conveyor
 - 2) shake-out screen
 - 3) bucket elevator
 - 4) return sand conveyor
- d) sand reclamation operation comprised of:
 - 1) Screenerator vibrating screen
 - 2) bucket elevator
 - 3) return belt conveyor

The "no-bake floor molding line" is comprised of

- a) mold making operation comprised of:
 - 1) (2) mixer sand bins
 - 2) 1000 pound per minute, M1000 Palmer sand mixer
 - 3) 300 pound per minute, Fordath sand mixer
- b) pouring and cooling area
- c) casting shake-out area
- d) sand reclamation operation comprised of:
 - 1) Carver Foundry Products sand reclaimer and fluidized bed assembly
 - 2) dense phase pneumatic transporter

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The "core making operation" is comprised of:

- a) (2) bucket elevators
- b) (2) sand storage tanks
- c) Castec CEL 300 sand mixer
- d) Dependable sand mixer
5. Pursuant to the best available technology provisions of Sections 127.1 and 127.12 of Chapter 127, as well as the RACT provisions of Sections 129.91 through 129.95 of Chapter 129, of Article III of the Rules and Regulations of the Department of Environmental Protection, the total combined volatile organic compound emissions from the refiner plate molding line identified in condition 3 herein shall not exceed 57.99 tons in any 12 consecutive month period.
6. Pursuant to the RACT provisions of Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the combined volatile organic compound emissions from the green sand molding line, the no-bake floor molding line and the core making operation identified in condition 3 herein plus the combined volatile organic compound emissions from the propane-fired generators and minor sources identified below, shall not exceed a total of 69.86 tons in any 12 consecutive month period.

"propane-fired emergency generators"

- a) (1) 5 5KW generator
- b) (1) 30KW generator
- c) (1) 15KW generator
- d) (1) 10KW generator
- e) (2) 7.5KW generators
- f) (1) 6KW generator

"minor sources"

- a) (14) natural gas-fired and (1) #2 oil-fired space heaters
- b) natural gas-fired combustion units
 - 1) (2) 12 MMBtu/hr Rockmill boilers
 - 2) (1) 8.4 MMBtu/hr Cleaver Brooks boiler

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- 3) (1) 4.19 MMBtu/hr York Shipley boiler
 - 4) (1) 2100 Btu/hr H.B. Smith boiler
 - 5) (1) 2100 Btu/hr A.O. Smith water heater
- c) (7) 1 MMBtu/hr natural gas-fired ladle torches
- d) heat treatment area comprised of:
- 1) Lindberg endothermic generator
 - 2) Hayes vacuum carburizing furnace
- e) (21) cold degreasers, each with a surface to air interface area of less than 10 square feet
- f) (2) 8000 gallon distillate oil storage tanks
- g) natural gas-fired 3.36 MMBtu/hr Venetta scrap dryer
- h) polyurethane foam packaging operation
- i) pattern shop
- j) cleanup solvents associated with the surface coating operation
7. Pursuant to the best available technology provisions of Sections 127.1 and 127.12 of Chapter 127, as well as the RACT provisions of Sections 129.91 through 129.95 of Chapter 129, of Article III of the Rules and Regulations of the Department of Environmental Protection, the total amount of steel processed by the refiner plate molding line identified in condition 3 herein shall not exceed 11,000 tons in any 12 consecutive month period.
8. Pursuant to the RACT provisions of Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the total combined amount of steel processed by the green sand molding line and the no-bake floor molding line identified in condition 3 herein shall not exceed 8,000 tons in any 12 consecutive month period.
9. Pursuant to the best available technology provisions of Sections 127.1 and 127.12 of Chapter 127, as well as the RACT provisions of Sections 129.91 through 129.95 of Chapter 129, of Article III of the Rules and Regulations of the Department of Environmental Protection, the refiner plate molding line identified in condition 3 herein shall not be operated more than 7,000 hours in any 12 consecutive month period.

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10. Pursuant to the RACT provisions of Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the green sand molding line and the no-bake floor molding line identified in condition 3 herein shall each not be operated more than 7,000 hours in any 12 consecutive month period.
11. Pursuant to the RACT provisions of Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the total combined volatile organic compound emissions from the core making operation shall not exceed 2.70 tons in any 12 consecutive month period.
12. The permittee shall maintain accurate and comprehensive records of the following:
 - The amount of steel processed by the refiner plate molding line each month, the amount of steel processed by the green sand molding line each month and the amount of steel processed by the no-bake floor molding line each month.
 - The number of hours the refiner plate molding line is operated each month, the number of hours the green sand molding line is operated each month and the number of hours the no-bake floor molding line is operated each month.
 - The amount of binders/resins used in the core making operation each month.

These records shall be used by the permittee to calculate the monthly emission of volatile organic compounds from the refiner plate molding line, the green sand molding line, the no-bake floor molding line and the core making operation. All records generated pursuant to this condition, including the volatile organic compound emissions calculations, shall be retained on site for at least 5 years from date of generation and shall be provided to the Department upon request. The monthly emissions report shall include all background information and calculations used in the derivation of these emissions.